ARMOR+ VH6000 Series

Beyond the pass, Exceed the present, Surpass the competition.

Thermaltake
CoolAll Your Life

©2007 Thermaltake Technology Co., Ltd. All Rights Reserved. 2007.10
All other registered trademarks belong to their respective companies. *www.thermaltake.com*

FC Tested To Comply With FCC Standards
FOR HOME OR OFFICE USE

Thermaltake
CoolAll Your Life

Contents

Chapter 1. Product Introduction

1.1 Specification ····· 02

Chapter 2. Case Mechanical Operation

2.1 How to Open the Side Panel ····· 03
-Open the transparent side panel ····· 03
-Open the right-hand side panel ····· 04
2.2 5.25" Device Installation ····· 05
-How to remove 5.25" device? ····· 06
-How to put back the 5.25" drive bay cover? ····· 06
2.3 3.5" Device Installation ····· 07
2.4 HDD Installation ····· 08
2.5 How to Remove the HDD Cage ····· 10
2.6 PCI Slot Tool-Free Usage ····· 11
2.7 Power Supply Installation ····· 12
2.8 Sliding Motherboard Tray ····· 14
2.9 Accessory Storage ····· 15
-Top accessory storage ····· 15
-Storage draw (optional) ····· 15
2.10 Swappable HDD Module/ Fan Module (Optional) ····· 16
2.11 VGA Fan Installation (Optional) ····· 17

Chapter3 Motherboard & Leads Installation

3.1 Motherboard Installation ····· 18
3.2 Case LED connection ····· 19
3.3 USB 2.0 & IEEE 1394 Firewire Connection ····· 20
3.4 Audio Connection ····· 22
3.5 eSATA connection ····· 22

Chapter4 Other

4.1 Toughpower / Purepower / TR2 power supply series (optional) ····· 23

Specification

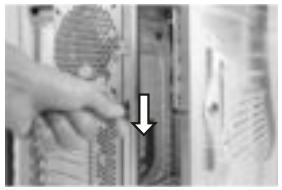
Model	VH6000SWA	VH6000BWS
Case Type	Super Tower	
Dimension (W*D*H)	600 x 245 x 625 mm 23.6 x 9.6 x 24.6 inch	
Net Weight / Gross Weight	9.51 kg (20.97 lb)	15.28 kg (33.69 lb)
Side panel	Transparent window	
Sliding motherboard tray	Yes	Yes
Cable management	Yes	Yes
Sliding hood	Yes	Yes
Adjustable PSU bridge	Yes	Yes
Material	All Aluminum	Front door: Aluminum / Chassis: 1.0mm SECC
Color	Silver	Black
Cooling System	- Front (intake) : 140 x 140 x 25mm blue LED fan, 1000rpm, 16dBA - Rear (exhaust) : 120 x 120 x25 mm TurboFan, 1300rpm, 17dBA - Side ((intake) : 230 x 230 x 20mm blue LED fan, 800rpm, 15dBA - Bottom (intake) : Two 140 x 140 mmfans (optional) - VGA (intake) : 140 x 140 x 25mm fan (optional)	
Motherboards	9.6" x 9.6" (Micro ATX), 12" x 9.6" (ATX), 12" x 13" (Extend ATX)	
Drive Bays -5.25" Drive Bay -3.5" Drive Bay -3.5" Drive Bay (Hidden)	 7 1 (Convertable from one 5.25"drive bay) 7	
Front I/O	e-SATA connector x1, USB2.0 x 4, IEEE 1394 Firewire x 1, HD Audio	
Expansion Slots	10	

2.1 How to Open the Side Panel

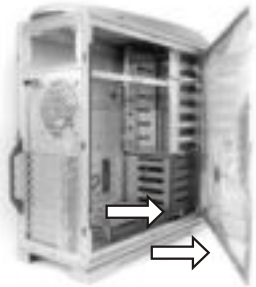
Open the transparent side panel

To remove the transparent side panel, please remove upper and bottom thumb screws on the back of the case.

Please find side panel key in the back of the case, and open the side panel. Make sure the side panel lock is opened.

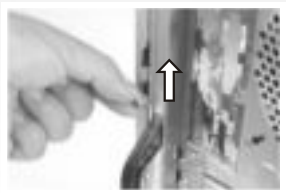


Push down the thumb screw to open the side panel.

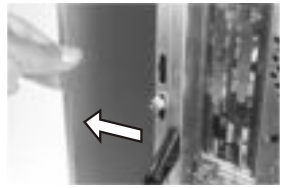


Open the right-hand side panel

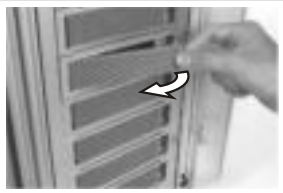
To remove the right-hand side panel, please remove upper and bottom thumb screws on the back of the case.



Pull up the thumb screw to open the side panel.



2.2 5.25" Device Installation



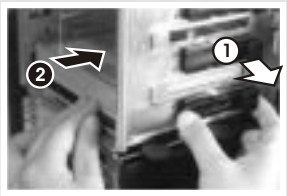
Remove the 5.25" drive bay cover as shown.

Put 5.25" device into the drive bay till the locked-position.

Notice:

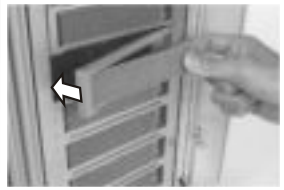
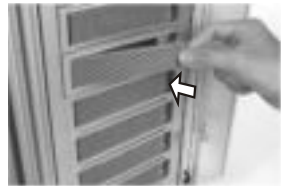
It is possible to secure the 5.25" device by screws if not feel stable enough.

How to remove 5.25" device?



Pull the right-hand side of the lever to remove the 5.25" device.

How to put back the 5.25" drive bay cover?

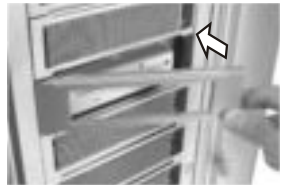



Install the 5.25" drive bay cover as shown.

2.3 3.5" Device Installation

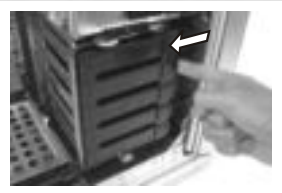
Place 3.5" device on the tray and fasten it using the screws provided.

Slide the drive device into the bay and secure the tray by 5.25" slot-in kit.



Install the 5.25" to 3.5" adaptor cover provided in the tool box to the case as shown.

2.4 HDD Installation



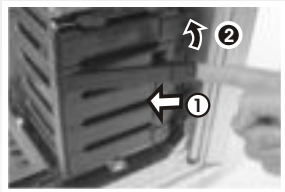
Remove the HDD tray by pressing the handle and pull the tray out.

Place HDD on the tray.

Secure HDD using the clips onto the HDD tray for both side.

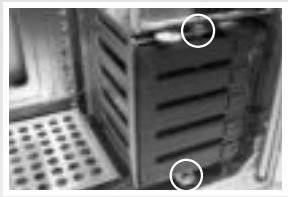
2.5 How to Remove the HDD Cage

Slide the HDD tray back to the drive bay.

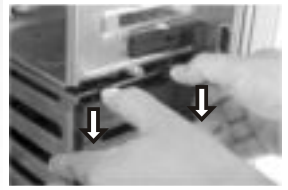


Press the handle to lock the HDD tray.

Organized HDD cable management.

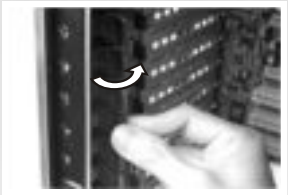


Unscrew the thumb screws of the cage.

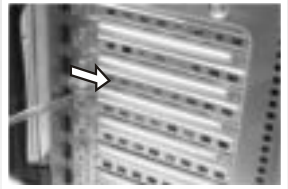


Push the handle down and pull the cage out.

2.6 PCI Slot Tool-Free Usage

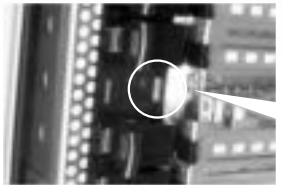


Release the plastic clip as shown.

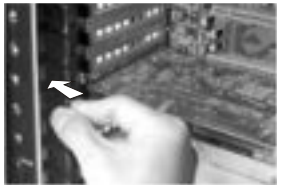


Take off the PCI bracket.

Locate Graphic Card to the motherboard through fixing it on the space of PCI bracket and insert it to the PCI slot.

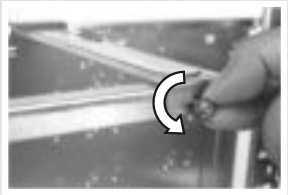


Notice:
Fix the pin into the hole.



Push back the plastic clip to secure the Graphic Card.

2.7 Power Supply Installation



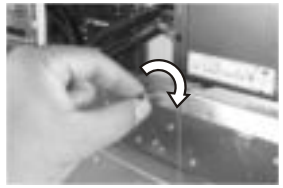
Take off both side panels and unscrew the thumb screws from both side of PSU supporting bridge.

Place power supply over the location as shown.

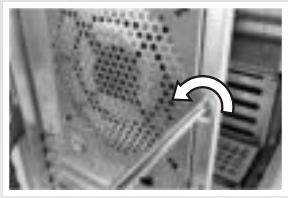
Fasten power supply by screws included.

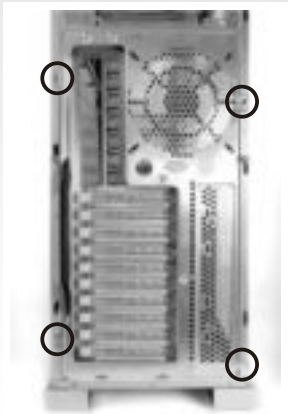
2.8 Sliding Motherboard Tray

Adjust PSU supporting bridge to the appropriate position.

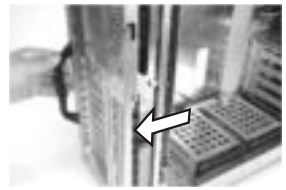


Fasten both side of PSU supporting bridge using the thumb screws.





Remove the screws from the back of the chassis.



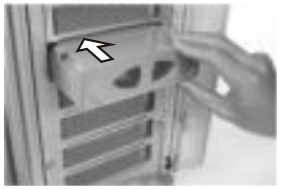
Slide the motherboard tray towards the back of the case to remove it from the case.

2.9 Accessory Storage

Top accessory storage

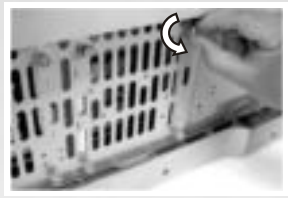
The top sliding hood allows easy access to the extra storage space for small tools and accessories.

Storage draw (optional)



Please find the storage draw from the provided tool box. Then, put the storage draw into the drive bay till the locked-position.

2.10 Swappable HDD Module/ Fan Module (Optional)



Lay down your case and unscrew the thumbscrews to remove the HDD cage

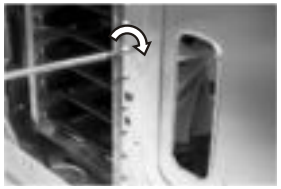
Put a fan and secure it by screws and thumb nuts provided in the tool box.

Notice:

The direction of fan airflow should be as shown.

2.11 VGA Fan Installation (Optional)

Install 140mm fan to the fan holder provided in the tool box.



Secure the fan holder to the motherboard tray by screws.

Notice:

The direction of fan airflow should be as shown.

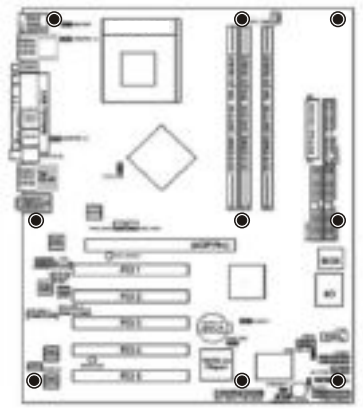
3.1 Motherboard Installation

Each motherboard has different standoff layout. It is highly suggested that you refer to your motherboard's manual when installing motherboard into the Case. Armor+ is applicable with Extend ATX, ATX & Micro ATX motherboards. Your motherboard may require a special I/O Panel, which should be included with your motherboard.

Placement Direction:

When installing the motherboard, make sure you follow the direction provided by your motherboard manufacturer. On most standard motherboards, the edge with external ports goes to the rear part of the chassis. It is highly recommended that you install CPU, heat sink and modular components before fixing the motherboard inside the chassis.

This side towards the rear of the chassis



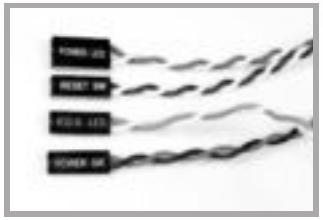
◉ = the locations of the screw holes. Note these locations and place included standoffs on the chassis first.

Above illustration is a sample of what the motherboard's layout. For more detail screw hole placement, please refer to your motherboard manual.

3.2 Case LED connection

On the front of the case, you can find some LEDs and switch leads (POWER SW*1, POWER LED*1, H.D.D. LED*1, RESET SW*1)
Please consult user manual of your motherboard manufacturer, then connect these leads to the panel header on the motherboard. These leads are usually labeled; if not, please trace them back to the case front to find out their source.

- **POWER LED**
  connects to your M/B at the PLED
- **POWER SW**
  connects to the PWR connector on the motherboard.
- **H.D.D LED**
  connects to the 2-pin labeled HDD LED connector
- **RESET SW**
  connects to the RSW connector on the motherboard

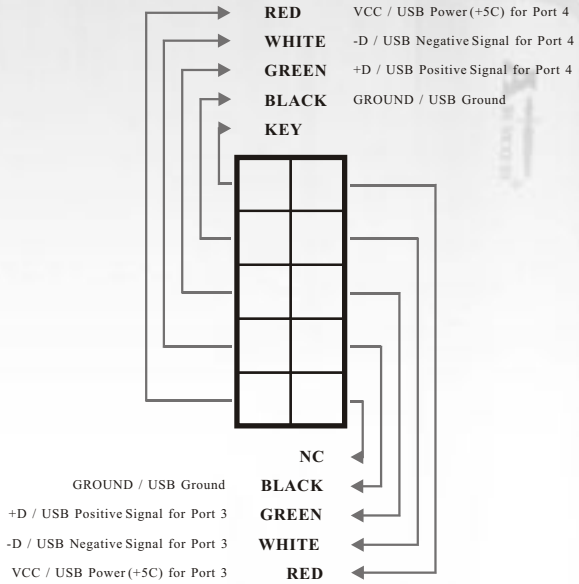


3.3 USB 2.0 & IEEE 1394 Firewire Connection

USB connection

Please consult your motherboard manual to find out the section of "USB connection".

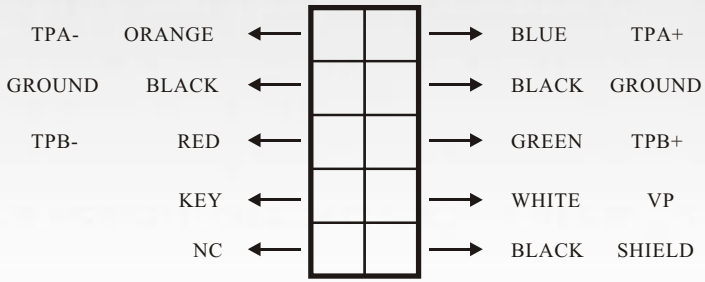
USB Function



IEEE1394 Firewire connection

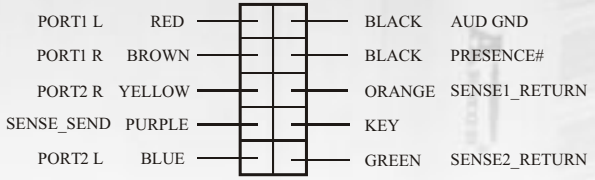
Please consult your motherboard manual to find out the section of "IEEE1394 Firewire connection".

1394 Function

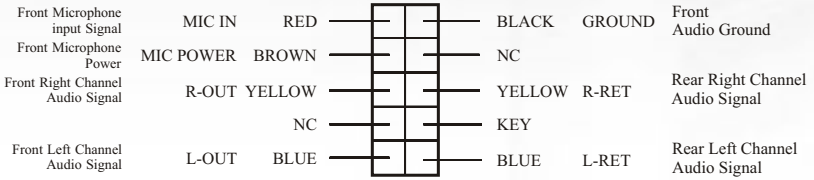


3.4 Audio Connection

- Please refer to the following illustration of Audio connector and your motherboard user manual.
- Please select the motherboard which used AC'97 or HD Audio (Azalia), (be aware of that your audio supports AC'97 or HD Audio (Azalia)) or it will damage your device(s).
- On some motherboards, the connectors for Audio are not the same as the drawing below. Please check with your motherboard manual before installing.


PORT1 L RED BLACK AUD GND
PORT1 R BROWN BLACK PRESENCE#
PORT2 R YELLOW ORANGE SENSE1_RETURN
SENSE_SEND PURPLE KEY
PORT2 L BLUE GREEN SENSE2_RETURN

AUDIO AZALIA Function


Front Microphone input Signal
MIC IN RED BLACK GROUND Front Audio Ground
Front Microphone Power
MIC POWER BROWN NC
Front Right Channel Audio Signal
R-OUT YELLOW YELLOW R-RET Rear Right Channel Audio Signal
NC KEY
Front Left Channel Audio Signal
L-OUT BLUE BLUE L-RET Rear Left Channel Audio Signal

AUDIO AC'97 Function

3.5 eSATA connection

Connect this to your motherboard at SATA.

4.1 Toughpower / Purepower / TR2 power supply series (optional)

The Thermaltake Power Supply series specification meets latest Intel & AMD dual & Quad core processors and NVIDIA & AMD high performance graphic cards; it offers plenty of functions, which mainly include:

1. Automatic Fan Speed Control: All power supply can detect the inside heat and automatically adjust the fan speed to provide adequate airflow.
2. Ultra Silent: Ball bearing fans with high reliability 140mm or 120mm cooling fan and super low acoustic noise under all load condition.
3. Modularized Cable Management: To eliminate clutter and improve airflow inside the case.
4. Dedicated Graphic Card Power: reduce the loading on current PSU and no need to upgrade current PSU while running multi graphic cards mode.

The functions can assure all Thermaltake Power Supply meets the balance in noise control and heat exhausted. All power supply provides complete protection function as follow:

1. Over power protection.
2. Short circuit protection on all output.
3. Over voltage protection / Under voltage protection.
4. Over current protection.
5. Over temperature protection.

Besides, Thermaltake enables the quality assurance of all power supply: 100% Hi-POT and ATE Function Test, 100% Burn-In and AC Input cycled on/off under high temperature condition. Furthermore, it has been approved by **UL, CUL, TUV, CB, FCC, CE, and BSMI.**

There are three main products line of Thermaltake PSU which divided into Toughpower, Purepower (include Purepower RX) and TR2 (include TR2 RX) series. Please refer to
http://www.thermaltake.com/product/Power/power_index.asp